



Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 280

CHANDOS TOWNSHIP

PETERBOROUGH COUNTY

Compiled by the Staff of
the Resident Geologist's Office
Bancroft



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

THIS PROJECT WAS PARTLY FUNDED BY CANADA WORKS - ONTARIO
RESOURCE SECTOR PROGRAM OF A SPECIAL EMPLOYMENT PROGRAM
(SECTION 38)

Ontario Geological Survey

1986: Chandon Township, Peterborough County; Ontario Geological Survey, Geological Data Inventory Folio 280, compiled by the staff of the Resident Geologist's Office, Bancroft, 26 pages and 2 maps.

Original Compilation by: Karen Fell, June 1985.

Date	Page Revised	Revised by

Date	Page Revised	Revised by

CHANDOS TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map - 1 Map

Exploration Data Map - 1 Map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL

SI Unit Multiplied by Gives

CONVERSION FROM IMPERIAL TO SI

Imperial Unit Multiplied by Gives

LENGTH

1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km

AREA

1 cm ²	0.155 0	square inches	1 square inch	6.451 6	cm ²
1 m ²	10.763 9	square feet	1 square foot	0.092 903 04	m ²
1 km ²	0.386 10	square miles	1 square mile	2.589 988	km ²
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha

VOLUME

1 cm ³	0.061 02	cubic inches	1 cubic inch	16.387 064	cm ³
1 m ³	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m ³
1 m ³	1.308 0	cubic yards	1 cubic yard	0.764 555	m ³

CAPACITY

1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 080	L

MASS

1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t

CONCENTRATION

1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE—Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

SOURCES OF DATA		Data	Initial
1	Resident Geologist's Office Files	Yes	K.F.
2	Assessment Files Research Office, Toronto	Yes	K.F.
3	ODM General Index; ~~XXXXXXXX~~ 9 Volumes	Yes	K.F.
4	Catalogue of Airborne Geophysical Surveys (ODM)		
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	K.F.
6	ODM Industrial Mineral Reports	Yes	K.F.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	K.F.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	K.F.
9	Newspaper Clippings File	Yes	K.F.
10	GSC Index to Publications	Yes	K.F.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	K.F.
12	OGS Index Maps	Yes	K.F.
13	Source Mineral Deposit Records (O.G.S.) & Mineral Deposit Inv. Records	Yes	K.F.
14	Author - Subject Articles File		
15	Miscellaneous Papers: ODM & OGS	Yes	K.F.
16	ODM Geological Circulars: OGS Study Series	Yes	K.F.
17	ODM Preliminary Reports: ODM Bulletins	Yes	K.F.
18	ODM - OGS Open File Reports	Yes	K.F.
19	OGS Northern Ontario Engineering Geology Terrain Studies	N/A	K.F.
20	OGS Aggregate Resources Inventory Papers	N/A	K.F.
21	OGS Mineral Potential Maps	Yes	K.F.
22	OGS Guidebook Series	No	K.F.
23	OGS Mineral Policy Background Papers	No	K.F.
24	OGS Occasional Papers	No	K.F.
25	ODM Papers	No	K.F.
26	OGS/OMNR Annual Statistical Reports		
27	OGS Industrial Mineral Background Papers (1-3)	No	K.F.
28	OGS Geophysical Reports	N.A.	K.F.
29	DEMR/National Mineral Inventory Cards	Yes	K.F.

METALS AND MINERALS REFERENCES LIST

Δ anh.....Anhydrite	Δ fu.....Fuchsite	Δ Ni.....Nickel	Δ st.....Stone
Δ ank.....Ankerite	Δ gn.....Galena	Δ Nb.....Niobium	Δ tlc.....Talc
Δ anns.....Annabergite	Δ gt.....Garnet	Δ Pd.....Palladium	Δ Te.....Tellurium
Δ ap.....Apatite	Δ gos.....Goethite	Δ pest.....Pentlandite	Δ tid.....Tetrahedrite
Δ arg.....Argentite	Δ Au.....Gold	Δ pent.....Pentlandite	Δ th.....Thorite
Δ As.....Arsenic	Δ gf.....Graphite	Δ Pt.....Platinum	Δ Th.....Thorium
Δ ap.....Arenopyrite	Δ gl.....Gravel	Δ py.....Pyrite	Δ thuc.....Thucholite
Δ asb.....Asbestos	Δ gyp.....Gypsum	Δ pyl.....Pyrochlore	Δ ti.....Titanite
Δ ba.....Barite	Δ hem.....Hematite	Δ pyrl.....Pyrolusite	Δ Ti.....Titanium
Δ ba.....Beryl	Δ il.....Ilmenite	Δ po.....Pyrrhotite	Δ tour.....Tourmaline
Δ Bl.....Blennium	Δ Fe.....Iron	Δ q.....Quartz	Δ trap.....Trap rock
Δ bn.....Bornite	Δ IF.....Iron Formation	Δ qcv.....Quartz carbonate vein	Δ W.....Tungsten
Δ bran.....Brennerite	Δ jes.....Jasper	Δ ra.....Radioactive minerals	Δ uran.....Uraninite
Δ bruc.....Brucite	Δ kaol.....Kaolinite (kaolin)	Δ RE.....Rare Earths	Δ U.....Uranium
Δ Cd.....Cadmium	Δ ky.....Kyanite	Δ sd.....Sand	Δ verm.....Vermiculite
Δ calc.....Calcite	Δ Pb.....Lead	Δ sgf.....Sand and gravel	Δ Y.....Yttrium
Δ carb.....Carbonate	Δ lim.....Limonite	Δ ss.....Sandstone	Δ Zn.....Zinc
Δ cel.....Celestite	Δ Li.....Lithium	Δ scap.....Scapolite	Δ zr.....Zircon
Δ cc.....Chalcocite	Δ mgt.....Magnesite	Δ shee.....Scheelite	Δ all.....allanite
Δ cp.....Chalcopyrite	Δ mag.....Magnesite	Δ serp.....Serpentine	Δ ant.....anatase
Δ ch.....Chert	Δ mc.....Malachite	Δ sh.....Shale	Δ bast.....bastnaesite
Δ clay.....Clay	Δ Mn.....Manganese	Δ sid.....Siderite	Δ dp.....diopside
Δ Co.....Cobalt	Δ mb.....Marble	Δ si.....Silica	Δ hb.....hornblende
Δ cob.....Cobaltite	Δ mar.....Marcasite	Δ Ag.....Silver	Δ per.....pericase
Δ cb.....Columbite	Δ ma.....Marl	Δ si.....Silica	Δ urp.....uranophane
Δ Cu.....Copper	Δ ml.....Mica	Δ sm.....Smaltite	
Δ cor.....Corundum	Δ ml.....Millerite	Δ sod.....Sodalite	
Δ dol.....Dolomite	Δ mo.....Molybdenite	Δ spec.....Specularite	
Δ ep.....Epidote	Δ Mo.....Molybdenum	Δ sp.....Sphalerite	
Δ ery.....Erythrite	Δ mon.....Monazite	Δ spd.....Spodumene	
Δ fel.....Feldspar	Δ ne.....Nephelite (nepheline)	Δ staur.....Staurolite	
Δ fl.....Fluorite (fluor spar)	Δ nc.....Nicolite	Δ stib.....Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES					Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record & M.D.I.R.	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	
	ARTHUR MINE (Location Unknown)	hem			OGS AR Vol. 2 p.82
A	BLACK ROCK MINE (Black Rock Mining Co.) (Knox & Reynolds) (Imp Lake Anomaly) (Lot 27-28, Con 2)	Fe(mag) <u>Min.Coll.#1</u> mag, py	S00538	MRC 11 p.291	OGS Maps: 2019, P.2567, 1957b, 52a GSC Maps: 16G OGS AR Vol. 8 Pt.2 p.214 OGS AR Vol. 52 Pt. 2 p.49 OGS I.O. p.223 OGS PR 1951-2 p.17 OGS GR 11 p.26 DEMR/CANMET #184 p.14 GSC Paper 69-50 p.118 Chandos Assessment File #3
B	BUNKER HILL EXTENSION MINES LTD. (Lot 1 & 2, Con 15)	RA?			OGS AR Vol.65 Pt.6 p.170 OGS GR 11 p.27 Satterly's Files on file at Res. Geologist's Office
C	CAMERON PROSPECT (Crows River Copper) (Lots 31, 32(border), Con 2 Sk)	Cu <u>Min.Coll.#5</u> cp			OGS Map: 2019 OGS AR Vol. 9 p.196 OGS GR 11 p.26 Kennedy (1984) pers. communication
D	CANFIELD-SHORTT PROSPECT (Crows River Uranium) (Cameron Mine?) (Lot 30, 31, Con 2 N4)	RA, per, mag, fl, tour <u>Min.Coll.#6</u> uran			OGS Map: 2019 OGS AR Vol.8 Pt.2 p.214 OGS AR Vol.2 p.82 OGS GR 11 p.26-27 Kennedy (1984) pers. communication

NOTE: ALL MINERALS LISTED AT THESE OCCURRENCES (INCLUDING MINERAL COLLECTING MINERALS) ARE NOT SHOWN ON THE ACCOMPANYING MAP. MAJOR MINERALS ARE SHOWN.

MINERAL OCCURRENCES					Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	
E	<u>CHANDOS TOWNSHIP OCCURRENCE</u> (Lot , Con 2)	Au			OGS AR Vol.9 p.199
F	<u>CHANDOS TOWNSHIP OCCURRENCE</u> (Lot 27, Con 3)	mi, q, hem, tour			OGS Maps: 2019, 1957b, P1964-4, P.2567 GSC Maps: 770 OGS AR Vol.8 Pt.2 p.215 OGS OFR 5425 p.212, 288
G	<u>CHANDOS TOWNSHIP (NEAR APSLEY)</u> (Lot D, Con 4?)	gf			OGS Maps: 52a, 1957b, 2019, P.2205 P.1964-4, P.2567 OGS AR Vol.8 Pt.2 p.213 OGS OFR 5425 p.139 DEMRC/CANMET Report #18 p.50
H	<u>CHANDOS CROSSULAR #1</u> (Lot 7, Con 11)	Min.Coll.#3 dp,gt,tour			Peterson (1978) #8b
I	<u>CHANDOS CROSSULAR #2</u> (Lot 17, Con 11) *exceptional specimens of this mineral have been obtained from this property.	Min.Coll.#2 calc,dp,gt* scap,ti*			Bancroft Area Minerals Brochure#26 Peterson (1978) #8b Kennedy (1984) pers. communication

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			
J	<u>CONSOLIDATED URANIUM CORPORATION LTD.</u> (Lot 9, Con 16 S ₄)	U, Th, RE, mag, fl, ti Min. Coll. #4 all, ant, bast, fl, mag, th, urp	SO1354 361	MRC 4 p. 61-62 MRC 11 p. 55, 65	OGS Maps: 52a, 1957b, 2019, p. 2567, p. 1964-4 GSC Map: 770, 146G OGS AR Vol. 65 Pt. 6 p. 170 OGS OFR 5311 p. 489 OGS OFR 5425 OGS MP 70 p. 402 DEMR/NMI# 506865 U68 OGS GR 11 p. 27 GSC Paper 77-1A p. 335 GSC Paper 80-18 p. 20, 47 Northern Miner Articles (1954) Satterly's files on file at Res. Geologist's Office
K	<u>GILMOUR BAY ANOMALY</u> (Lot 26 or 27, Con 4)	mag			OGS PR 1951-2 p. 17
L	<u>HWY #28 ROCK CUT</u> (Lot 1, Con 17)	Min. Coll. #7 hb, st (granite)			Trussler's files (1980) on file at Res. Geologist's Office
M ¹ M ²	<u>LASSWADE ANOMALIES</u> (Lot 21, Con 4) (Lot 19, Con 2)	mag			OGS PR 1951-2 p. 17

GDIF FORM NO. 1

MINERAL OCCURRENCES					Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	
N	<u>RICBAN OCCURRENCE</u> (Lot 11, Con 11 S ₄)	U	SO1355 362		OGS Maps: 1957b, 2019, 52a DEMR/NMI# 506895 U34 Chandos Twp. Assess. File #2
O	<u>SOUTH BAY ANOMALY</u> (Lot 19, Con 5?)	mag			OGS PR 1951-2
P	<u>TRITON URANIUM MINES</u> (Tetra Uranium Mines) #4 Zone (Lot 9, Con 18 N ₄)	U, Th, mag, all	197 (Cardiff)		OGS Maps: 2019, 1957b OGS AR Vol. 65 Pt. 6 p. 75-76 OGS MP 70 p. 402 Northern Miner Articles (1954-55) Satterly's files on file at Res. Geologist's office - see also GDIF#124 Cardiff Occ. CZ Cardiff Township Assess. File #16

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																
EXPLORATION DATA filled at the RESIDENT GEOLOGIST'S OFFICE BANCROFT		GEOLOGICAL		GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIO-METRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIO-METRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY
1	Bunker Hill Extension Mines Limited					55												
2	Canfield and Shortt (Messrs.)				55													
3	Consolidated Uranium Corporation				54	54	1											
4	Hubble, M. AFRO file: Chandos Tp.12					53												
5	Red Bark Mines Limited AFRO file: 63.572	54											55					
6	Ricban Mines Limited AFRO file: Chandos Tp.10					58												
7	Tetra Uranium Mines Limited AFRO file: 63.523	54																
8	Triton Uranium Mines Limited AFRO file: Chandos Tp.11					58												
	NOTE 1. 7 shallow drillholes no logs available																	

DRILLHOLE SUMMARY		Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	RICEAN MINES LIMITED		CH-1	May 5/58	S 20 E	-45	-	-	320		
2	"		CH-2	May 8/58	S 20 E	-40	-	-	405		
3	TRITON URANIUM MINES		T-17	1958	290	-45	9		147		
4	HUBBLE, M.		1	Nov/53	E	50	16		222		
4	"		2	Dec/53	E	45	22		213		
5	CONSOLIDATED URANIUM CORP.			1954	(7 shallow drill holes reported - no logs available)						
6	BUNKER HILL EXTENSION MINES LTD.		S-1	May/55	N 71 E	-45	-		508		
6	"		S-2	May/55	-	-	-		500		
6	"		S-3	May/55	N 71 E	-45	-		506		
6	"		S-4	May/55	S 71 W	-45	-		495		

DRILLHOLE SUMMARY		Assay Data Included for	Mineralization Noted in Log	Total Length of Hole	Thickness of Overburden	Initial Dip of Hole	Bearing Azimuth	Date Drilled	Company Drillhole Number
Map Drilling Location Number	Company Name								

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA			Flight Altitude	Flight Line Direction	Flight Line Spacing
No.	By For	Type of Survey			

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office, Bancroft

The Northern Miner

- 1) Consolidated Uranium Corporation Ltd. - Aug.5/54, Sept.16/54
Oct.7/54, Oct.7/54
- 2) Tetra Uranium Mines - May 6/54
- 3) Triton Uranium Mines - Nov.24/55

ODM GENERAL INDEX SEARCH

Words searched:

CHANDOS TOWNSHIP

Index Volume	Listing:	Report Volume	Part	Page
1	CHANDOS TOWNSHIP			
	chalcopyrite	9		196
	geology notes	8	2	213-215
	gold	9		199
	iron ore	2		82
2	CHANDOS TOWNSHIP			
	iron ore deposits	I.O.		223
6	CHANDOS TOWNSHIP			
	uranium claims	65	6	75,170
7	CHANDOS TOWNSHIP			
	allanite, uranothorite	MRC 4		61-62
	allanite, uranothorite	MRC 11		291
	allanite, uranothorite	IMR 21		54-55
	geology report	GR 11		1-28
	uranium mining	GC 2		60
8	CHANDOS TOWNSHIP			
	iron	MRC 11		291
	uranium	MRC 4		61-62
9	CHANDOS TOWNSHIP			
	uranothorite	MP 70		402

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES			Reference	Map Scales and/or Report Pages
Author	Date	Title		
<u>GEOLOGICAL MAPS WITHOUT REPORTS</u>				
??	1975	Bancroft Area Minerals (Mineral Collecting Map) (minor revision 1981)	OMNR Brochure	
	1894-94	Portion of Central Ontario (Ontario Series of Geological Maps.)	GSC Map Sheet 118	1" = 4 mi.
Bright, E.G.	1980	Eels Lake Area, NTS 31D/16, Southern Ont. (precam.)	OCS Map P.2205	1:63,360
Freeman, E.B.	1978	Geological Highway Map, Southern Ontario	OCS Map 2418	1:800,000
Hewitt, D.F. & Satterly, J.	1957	Haliburton-Bancroft Area, Prov. of Ont. (revised 1972)	OCS Map 1957b	1" = 2 mi.
Lumbers, S.B.	1976	Ontario Geological Map, Shouthern Sheet, NTS 30/NW, 31/S, 40/NE, 41/SE (revision of map 2197)	OCS Map 2392	1" = 16 mi.
Ontario Geological Survey	1974	Ontario Mineral Map	OCS Map 2310	1" = 25 mi.
Robertson, J.A., Gordon, J.B., & Rybak, R.	1981	Uranium & Thorium Deposits of Ontario, Southern Sheet (compilation 1979, 1980, 1981)	OCS Map P.2424	1" = 16 mi.
<u>GEOLOGICAL REPORTS WITH MAPS</u>				
Adams, F.D. & Barlow, A.E.	1910	Geology of the Haliburton and Bancroft Areas, Ont.	GSC Memoir 6 GSC Map 770	1" = 2 mi.
Lindeman, E.	1913	Magnetite Occurrences along the Central Ont. Railway	DEHR/CANMET #184	23 p.
Lumbers, S.B.	1964	Preliminary Report on the Relationship of Mineral Deposits to Intrusive Rocks and Metamorphism in Part of the Grenville Province of Southeastern Ontario.	OCS PR 1964-4 OCS Map P.1964-4 (Fig.7)	37 p. 1" = 2 mi.

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Martin, Wendy	1983	Industrial Minerals of the Algonquin Region, Ontario		OGS OFR 5425 OGS Map P.2567	316 p. 1:125,000
Shaw, D.M.	1962	Geology of Chandos Township, Peterborough County, Ontario.		OGS GR 11 OGS Map 2019	59 p.
Vennor, H.G.	1870	On the Geology and Economic Minerals of Parts of Hastings, Addington and Peterborough Counties		GSC Report of Progress 1866-1869 Pt. V GSC Map 79	p.144-171 1" = 4 mi.
Satterly, J.	1943	Mineral Occurrences in the Haliburton Area		OGS AR Vol.52 Pt.2 OGS Map 52a	106 p.
Abraham, E.M.	1951	GEOLOGICAL & TECHNICAL REPORTS WITHOUT MAPS Geology in the vicinity of aeromagnetic anomalies on the Bancroft and Coe Hill Sheets, Southern Ontario		OGS PR 1951-2	19 p.
Barlow, A.E.	1898	Observations on the occurrence of Corundum in Hastings, Renfrew, and Peterborough Counties, Ontario.(Summary Report for 1897)		GSC AR Vol.X Pt.A	p.43-61
Bourque, M.S.	1982	Stratigraphy & Sedimentation of Carbonate Metasediments within the Grenville Supergroup in the Havelock-Madoc-Bancroft Area, p.89-91; in Summary of Field Work 1982, edited by John Wood, Owen L. White, R.B. Barlow, and A.C. Colvine		OGS MP 106	235 p.

SELECTED REFERENCES			Reference	Map Scales and/or Report Pages
Author	Date	Title		
Cirkel, F.	1907	Graphite: its properties, occurrence, refining, and uses.	DENR/CANMET #18	307p.
Easton, R.M., Heaman, L.M., McNutt, R.H., Shaw, D.M. & Easton, M.G.	1984	Geology of the Minden and Chandos Township Areas, Central Metasedimentary Belt, Ontario; Friends of the Grenville 1984, Field Trip Guidebook.		54p.
Gordon, J.B., Rybak, U.C. & Robertson, J.A.	1981	Uranium and Thorium Deposits of Southern Ontario	OGS OFR 5311	665 p.
Hewitt, D.F.	1967	Uranium and Thorium Deposits of Southern Ontario	OGS MRC 4	76 p.
"	1967	Pegmatite Mineral Resources of Ontario	OGS IMR 21	83 p.
Johnston, R.A.A.	1915	A List of Canadian Mineral Occurrences	GSC Memoir 74	275 p.
Kennedy, Irvin	1984	Personal Communication (mineral collecting sites)		
Miller, W.G.	1899	Corundum and Other Minerals		
Ontario Iron Ore Committee	1923	Report of the Iron Ore Committee, with appendix.	OGS AR Vol. 8 Pt. 2	p. 205-240
Peterson, H.	1978	Peterson Guide to Mineral Collecting, Bancroft Area (second edition)	OGS I.O.	306 p.
Robertson, James A.	1975	Mineral Deposit Studies, Mineral Potential Evaluation, & Reg. Planning in Ontario	OGS MP 61	61 p. 42 p.

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Sabina, A.P.	1970	Rocks and Minerals for the Collector, Hull-Maniwaki Quebec; Ottawa-Peterborough, Ontario.		GSC Paper 69-50	177 p.
"	1977	New Occurrences of Minerals in Parts of Ontario		GSC Paper 77-1A	p.335-339
Satterly, J.	1956	Radioactive Mineral Occurrences in the Bancroft Area		OGS AR Vol.65 Pt.6	181 p.
"	1977	A Catalogue of the Ontario Localities Represented by the Mineral Collection of the Royal Ontario Museum		OGS MP 70	464 p.
Satterly, J. & Hewitt, D.F.	1955	Some Radioactive Mineral Occurrences in the Bancroft Area, NTS 31C/13, 31D/9 + 16, 31P/4		OGS GC 2	
Shklanka, R.	1968	Iron Deposits of Ontario		OGS MRC 11	489 p.
Traill, R.J.	1983	Catalogue of Canadian Minerals (Revised 1980) (replaces GSC Paper 69-45)		GSC Paper 80-18	432 p.
Trussler, J.R.	1980	Mineral Collecting Files, located at Resident Geologist's Office, MNR, Bancroft, Ontario.			
		<u>SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING</u>			
Bostock, H.S.	1969	Physiographic Regions of Canada		GSC Map 1254A	1:5,000,000
Chapman, L.J.	1975	The Physiography of the Georgian Bay-Ottawa Valley Area of Southern Ontario		GR 128 OGS Map 2228	33 p. 1" = 4 mi.

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Chapman, L.J. & Putnam, D.F.	1984	The Physiography of Southern Ontario, Third Edition		OCS Spec.Vol. 2 OCS Map P.2715	270 p. 1:600,000
Finamore, P.F.	1980	Quaternary Geology of the Coe Hill Area (31C/13), Southern Ontario p.117-118; in Summary of Field Work 1980, by the Ontario Geological Survey, edited by V.G. Milne, O.L. White, R.B. Barlow, J.A. Robertson & A.C. Colvine.		OCS MP 96	201 p.
Finamore, P.F. & Courtney, S.J.	1982	Quaternary Geology of the Coe Hill Area, Southern Ontario		OCS Map P.2536	1:50,000
Henderson, E.P.	1973	Surficial Geology of Kingston (North Half) Map Area, Ontario		GSC Paper 72-48 GSC Map 8-1972	6 p. 1:125,000
Department of Energy, Mines and Resources - Surveys & Mapping Branch	1971	Gooderham (31D/16)			1:50,000
"	1978	Coe Hill, Ontario (31C/13)			1:50,000
"	1965	Bobcaygeon, Ontario (31D/NE)			1:125,000
"	1975	Kingston (31C)			1:250,000
"	1974	Lake Simcoe, Ontario (31D)			1:250,000

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
DEMR/GSC (Resource Geochemistry Division)	1981	<u>GEOCHEMICAL</u> National Geochemical Reconnaissance, coloured compilation map series, southeastern Ontario (31C N ₄ & 31F)		GSC OF 747	1:2,000,000
	1984	Geology & Geochemistry of Grenville Marble in Southeastern Ontario (4 tables, 27 figures, 4 photos) Map in Back Pocket - (Faraday & Chandos Township Marble Sample Location Map)		OCS OFR 5509 Map in Back Pocket	297 p. 1:50,000
Hornbrook, E.H.W. & Lund, N.G.	1982	National Geochemical Reconnaissance Lake Sediment & Water Geochemical Survey, Southeastern Ontario (parts of 31C and 31F)		GSC OF 899 GSC Map 58-1982	233 p. 1:250,000
"	1982	National Geochemical Reconnaissance Lake Sediment & Water Geochemical Survey, Southeastern Ontario (parts of 31D, 31E, 41H)		GSC OF 900 GSC Map 59-1982	183 p. 1:250,000
Kettles, I.M. & Shilts, W.W.	83/847	Reconnaissance Geochemical Data for Till & Other Surficial Sediments, Frantenac Arch and surrounding areas, Ontario		GSC OF 947 GSC Map	85 p.
OCS/GSC	1977	Geochemical Reconnaissance in Lake Sediments, Southern Ontario (NTS 31C). Data gathered 1976.		OCS OFR 5227 GSC OF 405	1:250,000 1:250,000

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Geological Survey of Canada	1950	GEOPHYSICAL Coe Hill, Hastings, Peterborough, & Haliburton Counties		GSC Map 16G	1" = 1 mi.
	1953	Gooderham, Peterborough, Haliburton, & Hastings Counties		GSC Map 146G	1" = 1 mi.
	1981	Lake Simcoe, Ontario		GSC Map 7053G	1:250,000
	1981	Kingston, Ontario		GSC Map 7052G	1:250,000
	1971	Seven radiometric maps and profiles for 61 flight lines of an experimental high-sensitivity gamma-ray spectrometer survey of the Bancroft Area (31C/13, D/16, E/1, F/4)		GSC OF 45 Maps Profiles	1:50,000 1:250,000
	1977	Airborne Radioactivity Maps and Profiles, Kingston Ontario (310)		GSC OF 428 GSC Maps 35331G	1:250,000
	1984	Radiometric Survey Map - Sudbury (includes 35331G & 35431G)		GSC OF 1071	1:1,000,000
	1984	Radiometric Survey Map - Ottawa (includes 35331G)		GSC OF 1072	1:1,000,000
	1981	Eastern Ontario - Western Quebec Region, Magnetic Anomaly Map Series (Residual Total Field)		GSC Map 1562A	1:1,291,806
	OGS/GSC	1978	Airborne Gamma-Ray Spectrometric Maps and Profiles Lake Simcoe, Ontario		OGS Maps P.1766-1804 GSC Map 35431G
OGS/GSC	1972	Great Lakes - Ottawa River Sheet(Aeromagnetic Compilation Map)		GSC Map P.800	1" = 16 mi.

GEOL. FORM NO. 9

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Robertson, J.A. et al Springer, Janet "	1979	<u>MINERAL POTENTIAL MAPS</u> Uranium Mineral Potential Charts for Parts of Southern Ontario		OCS OFR 5260 CHART F	1" = 2 mi.
	1976	Ontario Mineral Potential, Lake Simcoe Sheet		OCS Map P.1506	1" = 4 mi.
	1978	Ontario Mineral Potential, Kingston and Part of the Ogdensburg Sheets		OCS Map P.1505	1:250,000
Best, M.G.	1966	<u>JOURNAL ARTICLES & THESES</u> Structural Geology of Precambrian Rocks South of Bancroft, Ontario; p.441-445, Canadian Journal of Earth Sciences, Vol. 3, 1007p.			
	1965	Element partition between hornblende and biotite in rocks from the Loon Lake aureole, Chandos Twp. Ontario; Unpublished M.Sc. Thesis, McMaster University, Hamilton, Ontario, 328p.			
Cloos, E.	1934	The Loon Lake Pluton, Bancroft Area, Ontario, Canada; Journal Geology, Vol. 42, No.4.			
	1973	Geochemistry & petrology of the Loon Lake Pluton, Ontario; Unpublished Ph.D. Thesis, McMaster University, Hamilton, Ontario, 328p.			
Dostal, J.	1975	Geochemistry and Petrology of the Loon Lake Pluton, Ontario; Canadian Journal of Earth Sciences, Vol.12, p.1331-1345.			

GDIF FORM NO.9

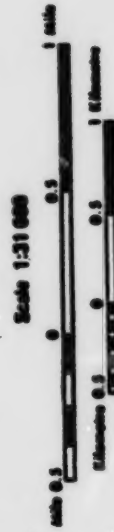
SELECTED REFERENCES		Date	Reference	Map Scales and/or Report Pages
Author	Title			
Gittins, J.	Abstract - Nepheline Rocks and Petrological Problems of the Haliburton-Bancroft Area, p.31-58; in Guidebook, Geology of Parts of Eastern Ontario and Western Quebec, The Geological Association of Canada with The Mineralogical Association of America, 346 p., edited by S.E. Jenness.	1967		
Griep, J.I.	Petrochemistry and metamorphism of the Tallan Lake Sill, Bancroft Area, Ontario; Unpublished M.Sc. Thesis, McMaster University, Hamilton, Ontario, 166p.	1975		
Heaman, L.M., Shieh, Y.N., McNutt, R.H. & Shaw, D.M.	Interpretation of strontium and oxygen isotope data from the Loon Lake Pluton and the Apsley gneiss, Grenville Province, Ontario; EOS, 81, No.18, 387	1980		
"	Isotopic and trace element study of the Loon Lake Pluton, Grenville Province, Ontario; Canadian Journal of Earth Sciences, Vol.19, p.1045-1054.	1982		
Jennings, D.S.	Origin and metamorphism of part of the Hermon Group near Bancroft, Ontario; Unpublished Ph.D. Thesis, McMaster University, Hamilton, Ontario, 225 p.	1969		
Lumbers, S.B.	Stratigraphy, plutonism in the Ottawa River remnant in the Bancroft-Madoc Area of the Grenville Province of Southeastern Ontario, Canada; Unpublished Ph.D. Thesis, Princeton, New Jersey, 331 p.	1967		
Moore, J.M. Jr.	Stratigraphy and tectonics of the Grenvillian orogen in Eastern Ontario. Abstract presented at the 1982 Grenville Workshop, Rideau Ferry.	1982		

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Saha, A.K.	1957	Studies on the mode of emplacement of some granitic plutons in Southeastern Ontario; Ph.D. Thesis University of Toronto			
"	1958	Mineralogical and chemical variations in the Wollaston granitic pluton, Hastings County, Ontario; American Journal of Science, Vol.256, Nov/58, p.609-619			
"	1959	Emplacement of Three Granitic Plutons in Southeastern Ontario, Canada, p.1293-1326; in Bull. of the Geological Society of America, Vol.70, No.10, 1848p.			
Shaw, D.M.	1972	Origin of the Apsley gneiss; Canadian Journal of Earth Sciences, Vol.9, p.18-35			
Shieh, Y.N., & Schwarcz,H.P.	1974	Oxygen isotope studies of granite and migmatite Grenville Province of Ontario, Canada; Geochimica et Cosmochimica Acta, Vol.38, p.21-45			
Shieh, Y.N., Schwarcz, H.P., 1976 & Shaw, D.M.	1976	An oxygen isotope study of the Loon Lake Pluton and the Apsley gneiss, Ontario; Contributions to Mineralogy & Petrology, Vol.54, p.1-6			
Shieh, Y.N.	1980	Oxygen isotope compositions of granitic and syenitic plutons in the Central Metasedimentary Belt, Grenville Province of Ontario; EOS, Vol.61, No.17, April 22/80, p.410.			
Schwarcz, H.P. & Clayton, R.N.	1965	Oxygen isotopic studies of amphibolites; Canadian Journal of Earth Sciences, Vol.2, p.72-84.			
Simony, P.S.	1960	Origin of the Apsley paragneiss; Unpub. M.Sc. Thesis, McMaster University, Hamilton, Ont. 79p.			

NOTES AND ADDENDA

ONTARIO GEOLOGICAL SURVEY
Map to Accompany GEOLOGICAL DATA
INVENTORY FOLIO 280

CHANDOS TOWNSHIP
PETERBOROUGH COUNTY



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP (Map 2 of 2)

MINERAL OCCURRENCES

- ☐ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralised Fluct with reference letter
- ☐ Mineral Collecting Site, with reference letter

DRILL HOLES

- ☐ Location of single drill hole, with reference number
- ☐ Location of closely spaced group of drill holes, with reference number
- ☐ Drill hole, exact location uncertain, with reference number
- ☐ Property with underground drill holes in this general area, with reference number
- ☐ Property with drill holes which have not been plotted on map, with reference number
- ☐ Reverse Circulation Drill Hole; Churn drilling, with reference number
- ☐

GEOCHEMICAL AND GEOTHERMOLOGICAL DATA

- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number
- ☐

GEOPHYSICAL ANOMALIES

- ☐ Airborne Magnetometer Anomaly
- ☐ Airborne Electromagnetometer Anomaly
Length of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly
Location of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly
Conductor Axis: definite, probable, possible

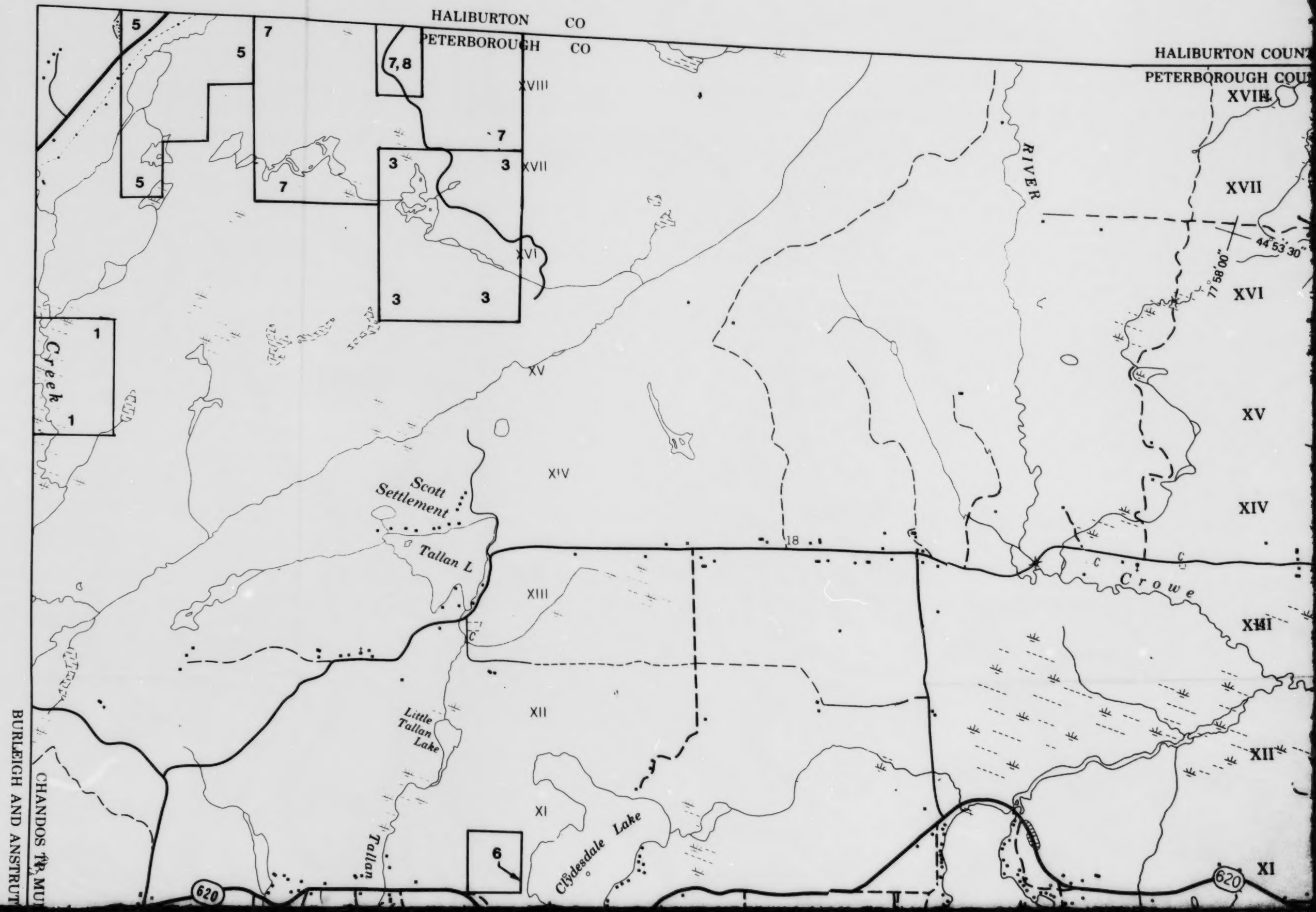
- ☐ Airborne Radiometric Anomaly
- ☐ Ground Magnetometer Anomaly
- ☐ Ground Electromagnetometer Anomaly
(NL - Vertical Loop; HL - Horizontal VLF - Very low freq; Turam; JEM - Crone EM - 50)
- ☐ Ground Radiometric Anomaly
- ☐ Induced Polarisation Anomaly
- ☐ Self Potential Anomaly
- ☐ Audio-frequency magnetometer anomaly (total intensity)
- ☐ Resistivity Anomaly
- ☐ Gravity Anomaly
- ☐

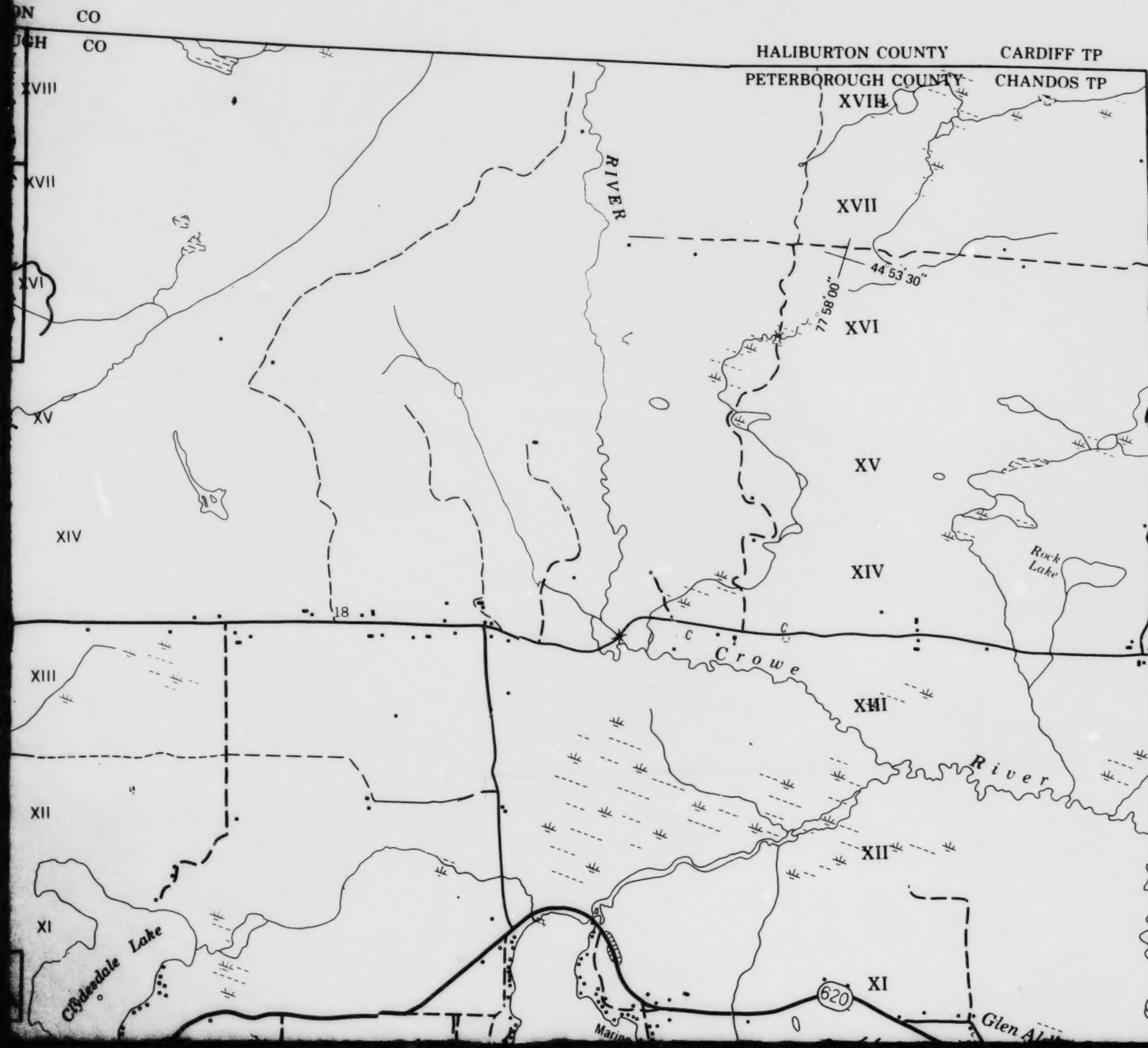
MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☐

EXPLORATION DATA FILE AREAS

- ☐ Reference number is always inside work on See listing in text page
- ☐ Small area of exploration data
- ☐





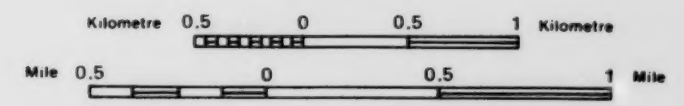
Ministry of
Northern Development
and Mines

ONTARIO GEOLOGICAL SURVEY
PROPERTY LOCATION MAP
GEOLOGICAL DATA INVENTORY FOLIO 280
(Map 1 of 2)

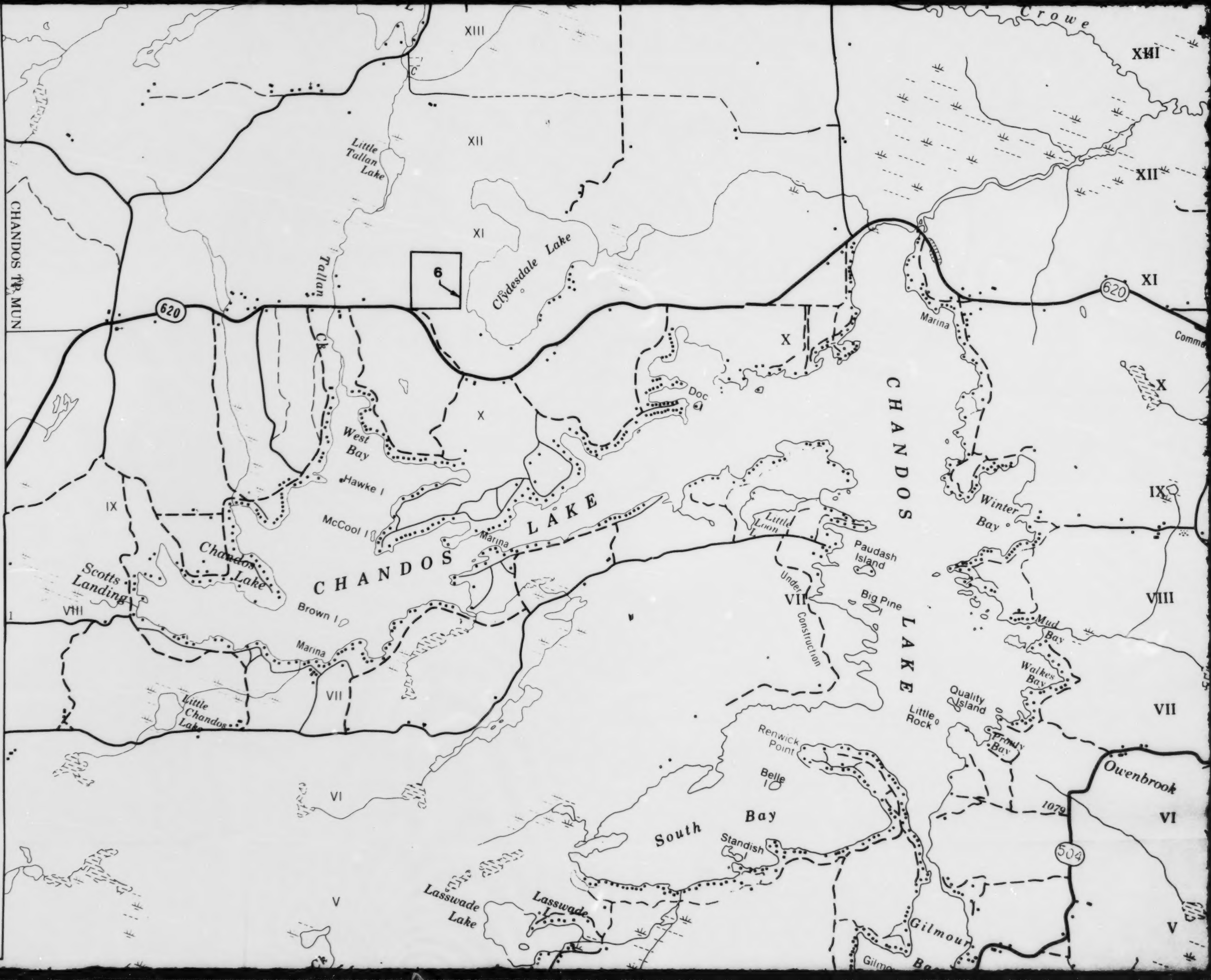
CHANDOS TOWNSHIP

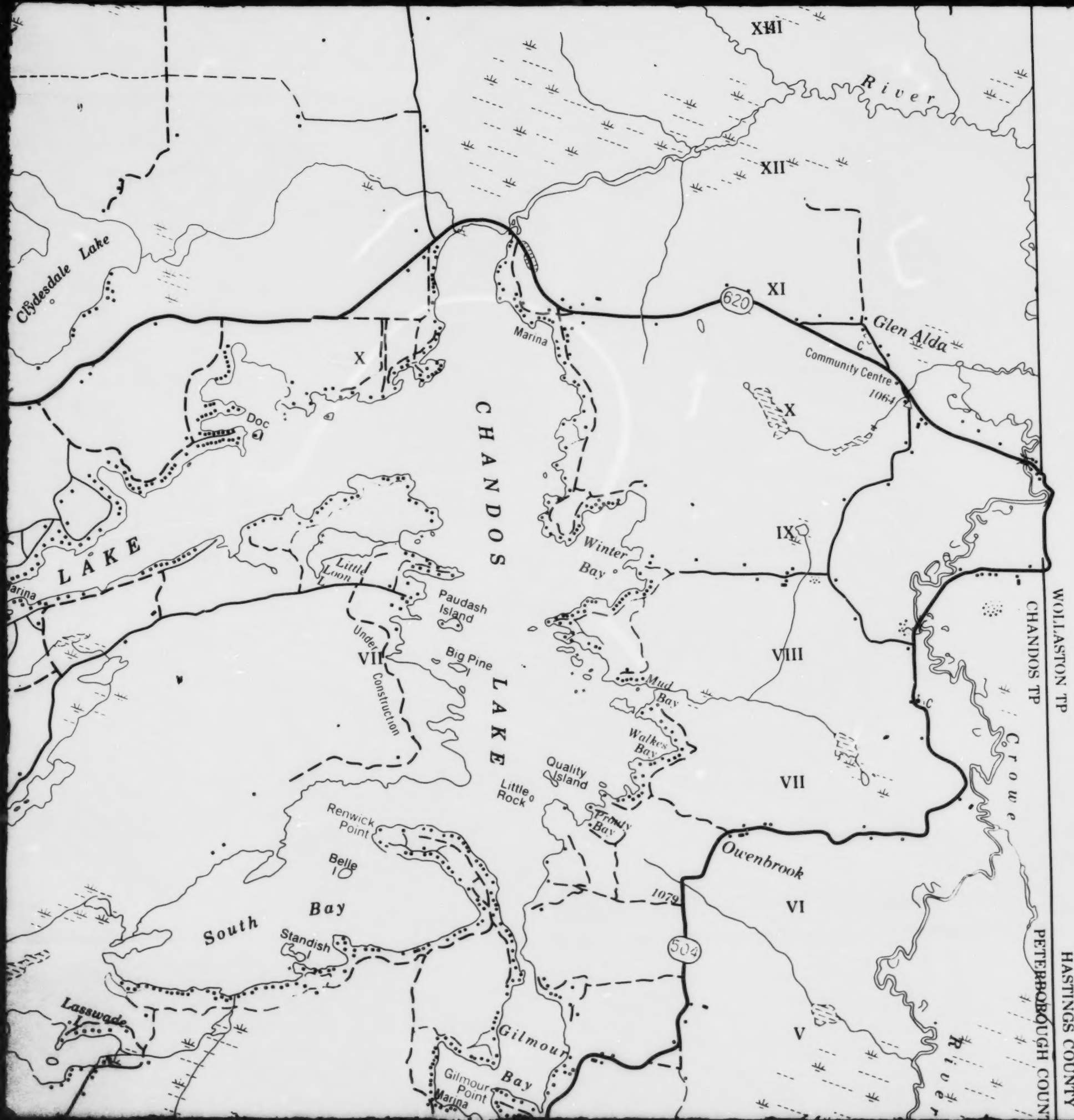
PETERBOROUGH COUNTY

Scale 1:31 680

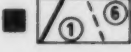
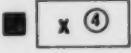


BURLEIGH AND ANSTRUTHER TP MUN



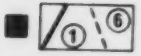


EXPLORATION DATA FILE AREAS

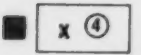
-  Reference number is always inside work area outlined. See listing in text pages.
-  Small area exploration.



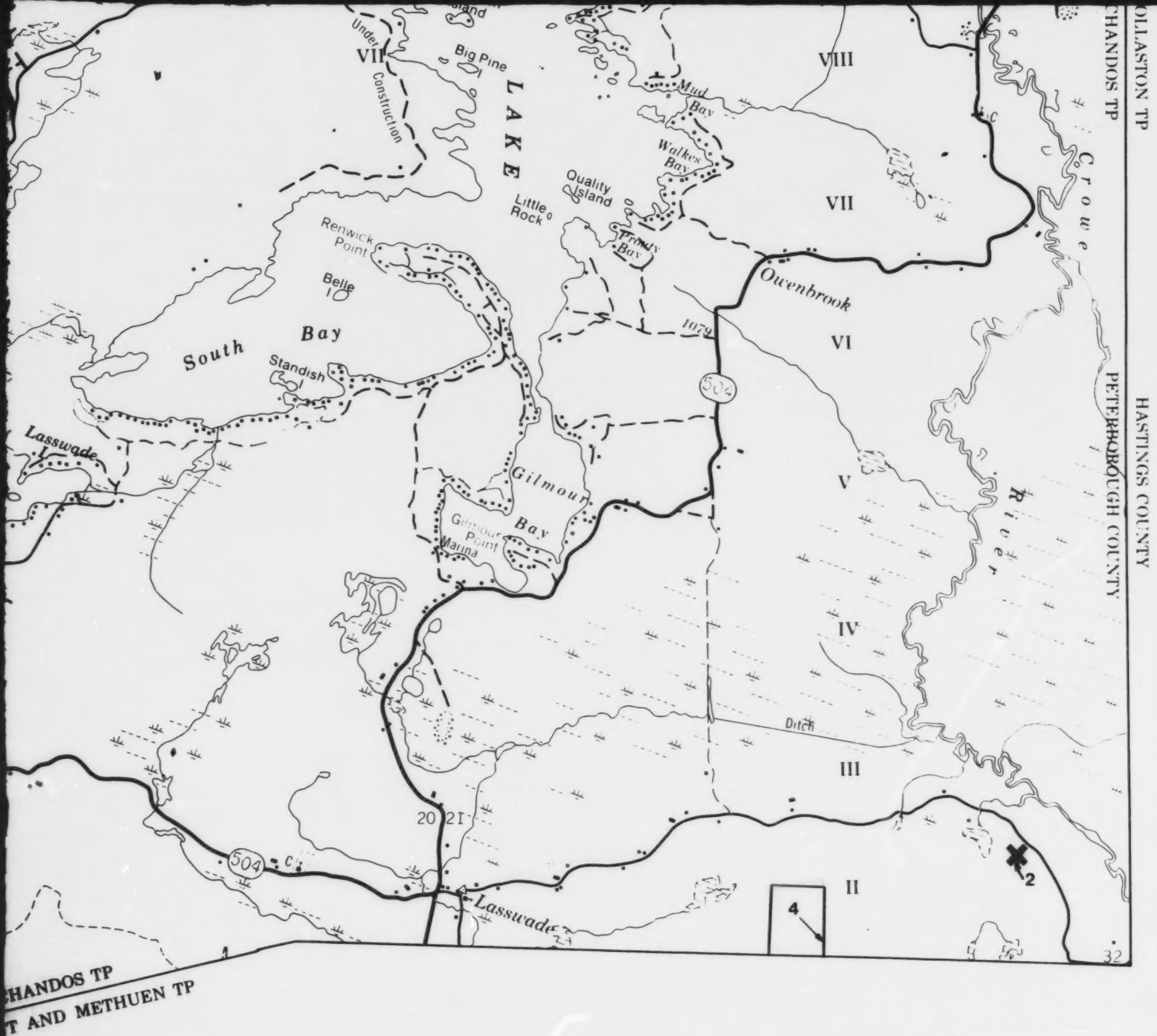
EXPLORATION DATA FILE AREAS



Reference number is always inside work area outlined.
See listing in text pages.



Small area exploration.



TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

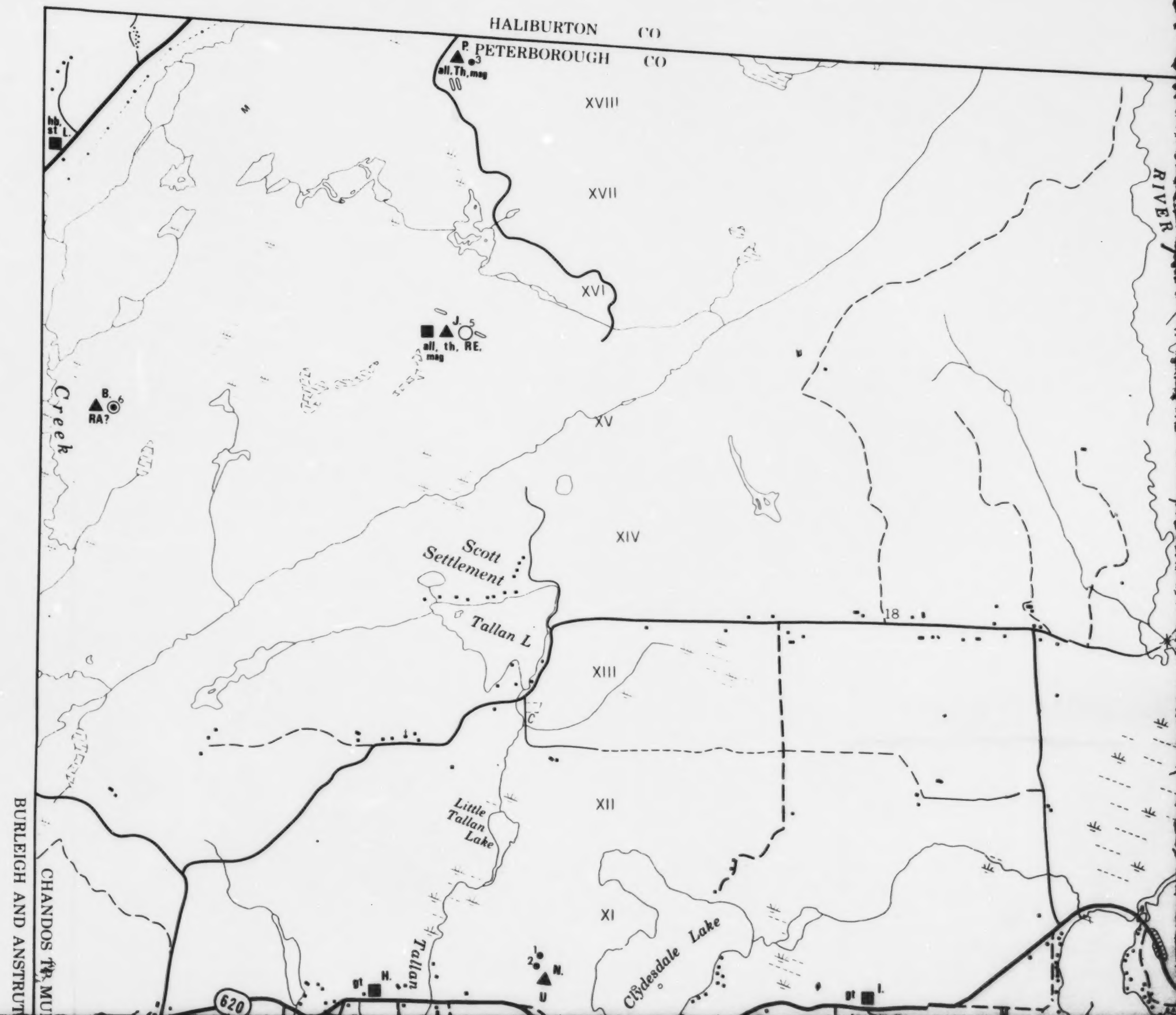
- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

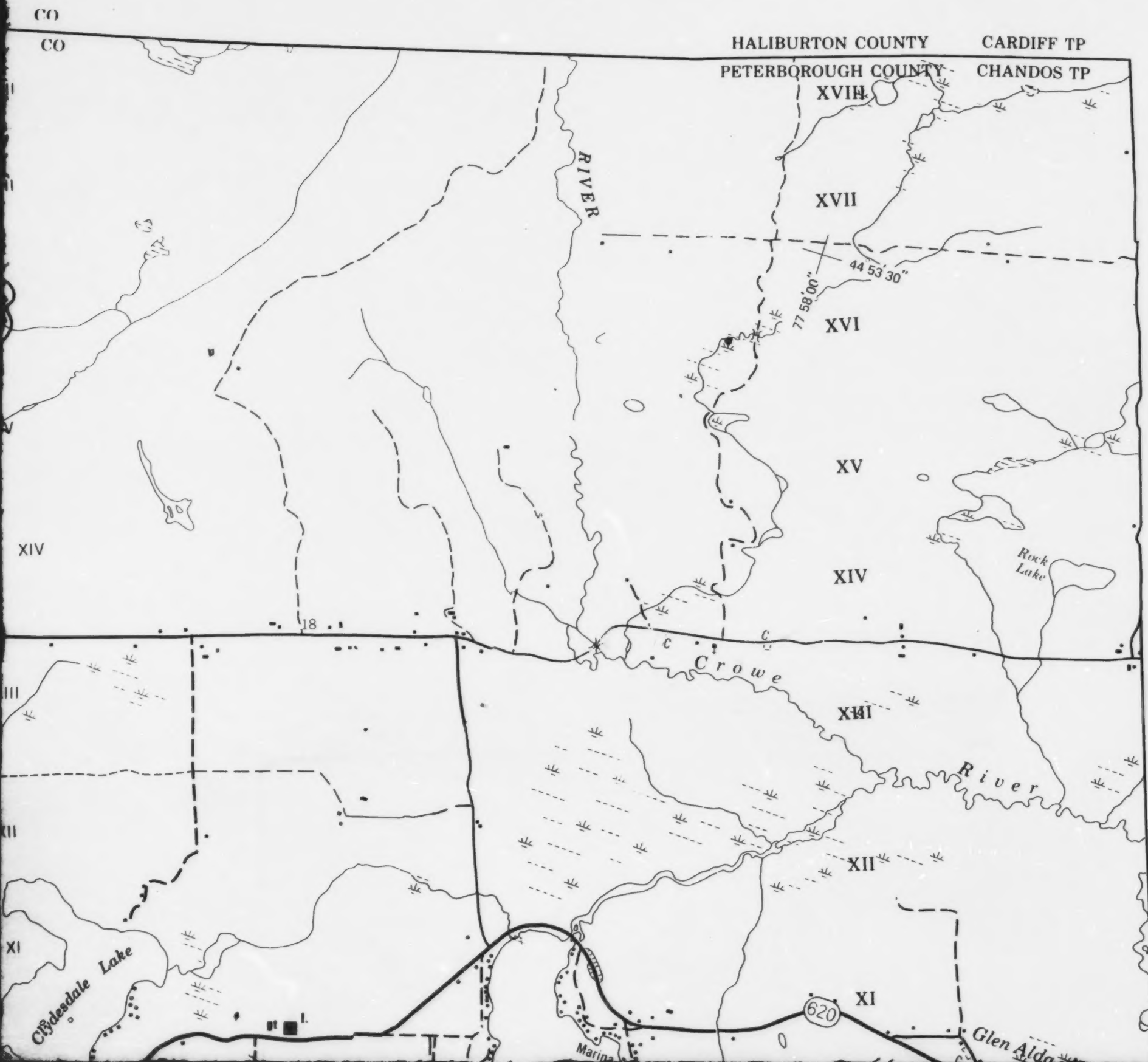
- ☒ Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly
Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
Conductor axis: definite, probable, possible
- ☐ Airborne radiometric anomaly
- ☒ Ground magnetic anomaly
- ☐ Ground electromagnetic anomaly
(VL - Vertical loop; HL - Horizontal loop;
VLF - Very low freq; Turam; JEM -
Crone Em - 16)
- ☐ Ground radiometric anomaly
- ☐ Induced polarization anomaly
- ☐ Self potential anomaly
- ☐ Audio-frequency magnetic anomaly
(total intensity)
- ☐ Resistivity anomaly
- ☐ Gravity anomaly

MISCELLANEOUS DATA

- ☒ Trenching, pit
- ☐ Rock quarry



Q 01 E 540



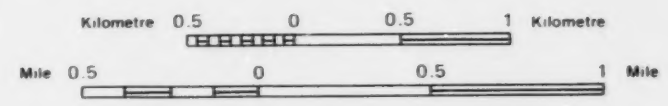
Ministry of
Northern Development
and Mines

ONTARIO GEOLOGICAL SURVEY
EXPLORATION DATA MAP
GEOLOGICAL DATA INVENTORY FOLIO 280
(Map 2 of 2)

CHANDOS TOWNSHIP

PETERBOROUGH COUNTY

Scale 1:31 680



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with

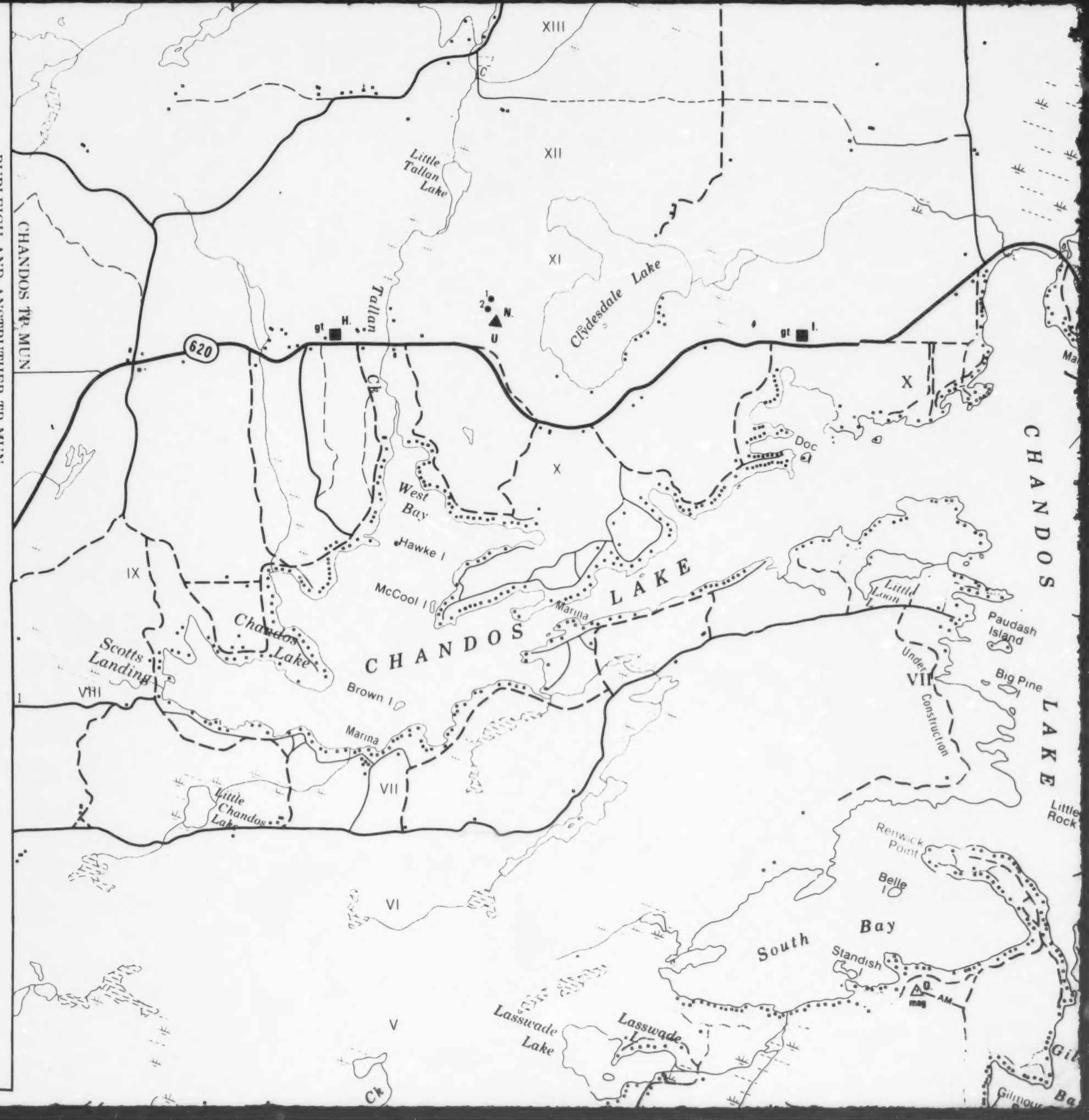
- ☐  Induced polarization anomaly
- ☐  Self potential anomaly
- ☐  Audio-frequency magnetic anomaly (total intensity)
- ☐  Resistivity anomaly
- ☐  Gravity anomaly

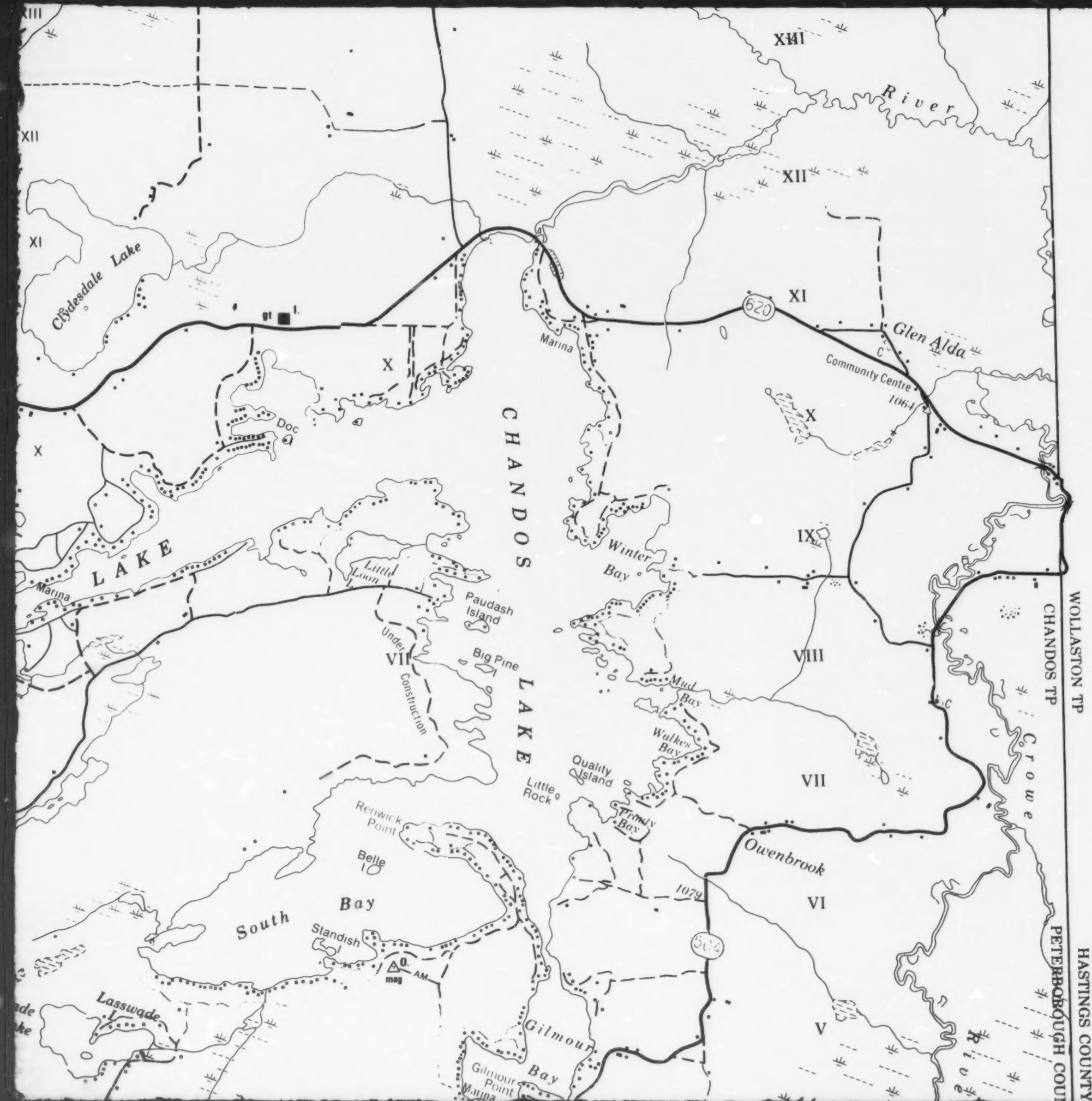
MISCELLANEOUS DATA

- ☐  Trenching, pit
- ☐  Adit
- ☐  Open pit
- ☐  Rock quarry
- ☐  Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

BURLEIGH AND ANSTRUTHER TWP MUN





GEOLOGICAL AND MINING SYMBOLS

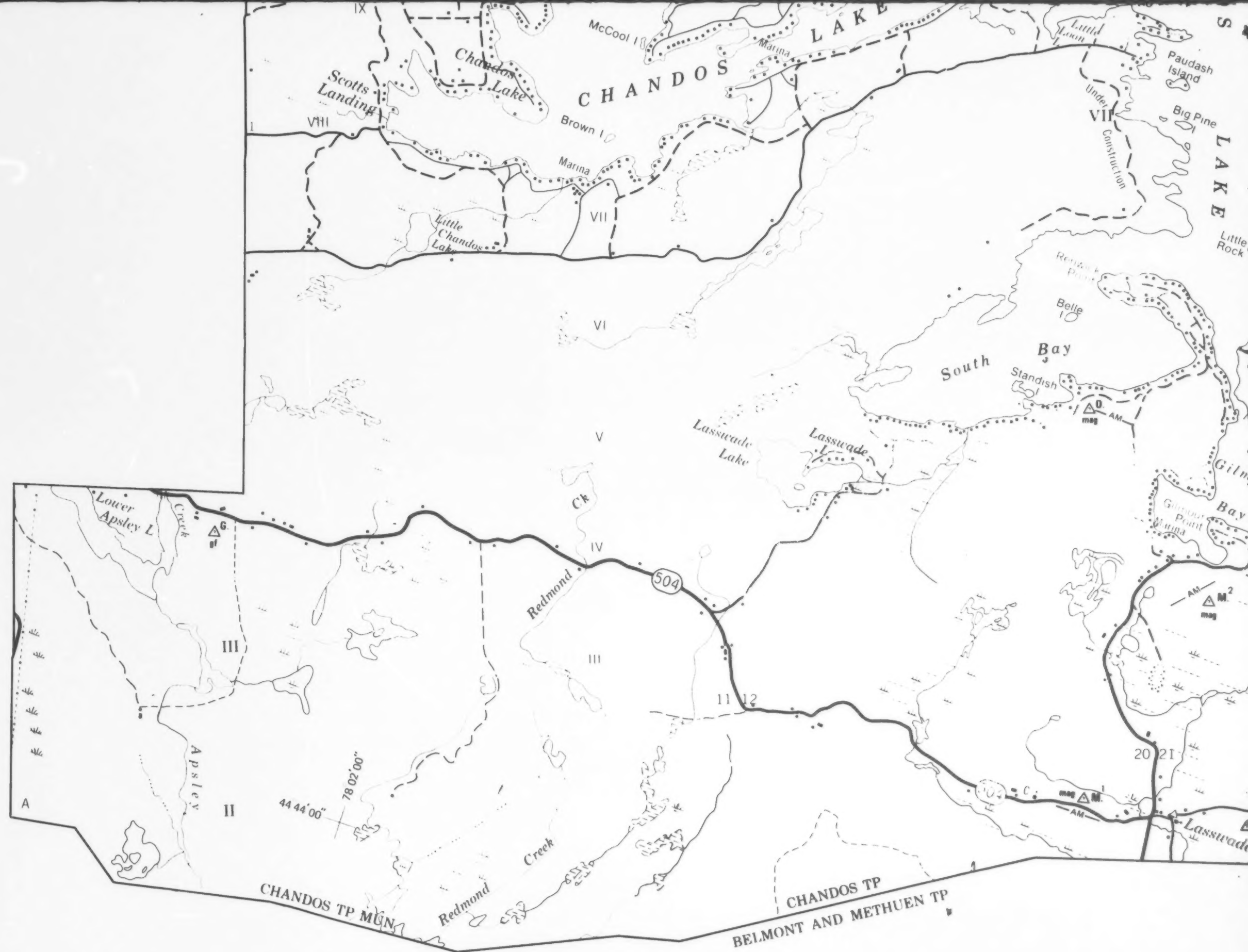
TYPES OF DATA SHOWN ON THIS MAP

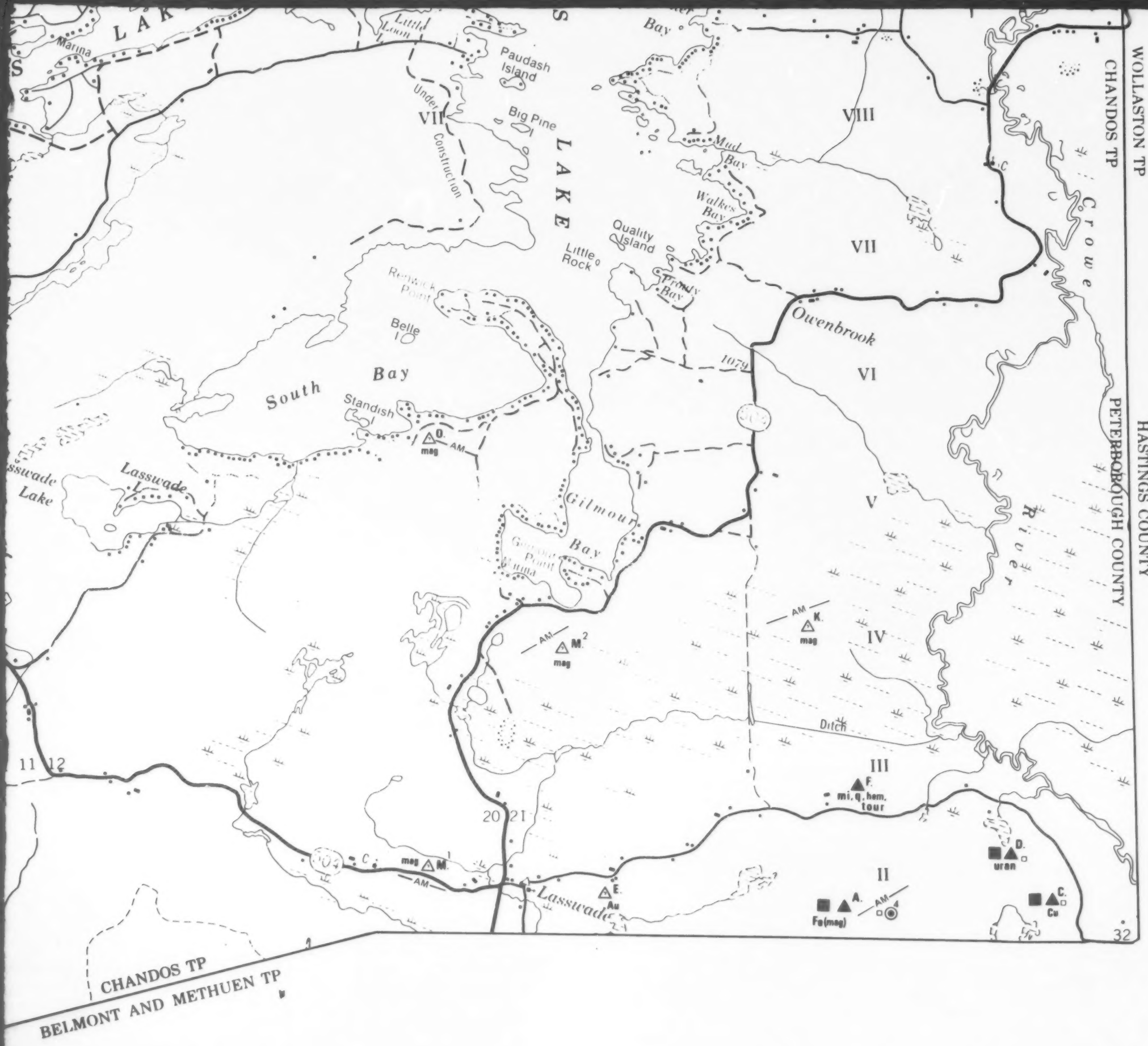
MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter
- Mineral Collecting Site, with reference letter.

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number





- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number

COPIE 540